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|      | SUBJECT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Development of Weapons at the Podmakly (Bodenbach) Military Technical Institute                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NO. OF PAGES 4.                                                                                                                                                            |  |  |  |  |  |
| 25X1 | PLACE<br>ACQUIRED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NO. OF ENCLS.                                                                                                                                                              |  |  |  |  |  |
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|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | cere small airplanes, suspended from the mand released against the targets (bunkers the latter had come into sight. In order to the pilot after being fired, the projectail with brightly surning luminous discs conited at release. The projectile was consideraft by an electro-magnetic gyroscope the aircraft carrying a transmitter, the beginning the projectile the receiving set.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | to rehain visible tile was fitted at its of powder which were ntrolled from the (short wave control), ody of the pro-                                                      |  |  |  |  |  |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | The propulsion was effected by means of war alcohol aided by compressed air. On projectile, the pilot electrically immited in the compressed air valve, thus perforations the fuel compressed air flowed into a in the fuel container. As the balloon explued through the pipe conduit into the compression take the pipe it was ignited, the compression take the container.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | releasing the a percussion cap  ng a tin diaph  rubber balloon  anded, it forced  bustion chamber,  ng place while  ment to hereby regraded to  ment to hereby regraded to |  |  |  |  |  |
|      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | letter Car<br>Directo.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | S from the                                                                                                                                                                 |  |  |  |  |  |
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|      | Editor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | This document is hereby CONFORT and the second letter of Confort and the second letter a | CONFIDENTIAL                                                                                                                                                               |  |  |  |  |  |
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com ressed air was supplied from a built-in compressed air cylinder. Experiments against ground targets were made in late February and early in Parch 1949, in PLACKY (P 49/S 72), Slovakia. Experiments on the Yugoslavian coast had also been arranged but due to the political situation did not take place. Only 3 of the 50 available projectiles at the Filitary Technical Institute in FORMARY have been fired.

The experiments were directed by staff captains Otto GROSS-TATE and METAL. The main experiments were done with the transmission sets and engines. An experimental transmitter for controlling the exhaust gases was installed. It was thought that original projectiles, Mentschel-198, were concerned, which were only tested and fitted with transmitters, each costing about 1 million Czech crowns. The rocket projectiles of this kind were not built at the POTOTLY ilitary Technical Institute.

According to rumors, these operations were to be transferred to the area 11 miles northeast of OLOMOUS (\*\*20/185), probably STERNBERK (\*\*20/185) (Lunatic Asylum).)

2. Tockets with liquid propellants were being developed under the nonagement of Staff Capt. Otto Cholking and Libor Follows. Constructional designs were not available and only six experiments have been ade in the bunker of the lilitary-lechnical Justitute, five of them failing.

A rocket motor similar to that used with the rocket projectile lentschel-200 is concerned. The ignition was effected without a fuze, viz., by means of an anilin-like substance merging with nitric acid. For the experiments steel cylinders containing compressed air, cylinders with nitric acid, and special white cylinders with the anilinlike substance were used. A valve was opened with the Lentschel-200 rocket projectile, when the liquid with compressed air passed into the combustion chamber, the mixture causing an explosion; the gases escaped through a nowale.

3. Assisting rockets for airplane take-offs.

The take-off assisting rocket was first built for c-109 and was about 50 inches long, with a diameter about 51 inches. It was a steel tube with attachment books, fitted at the ferward end with a stream-lined lug and at the rear with a nozzle. The propelling charge was a powder rod weighing about 50 lbs. Small strips of wood were fixed to its surface with small pins, and there was a 0.6-inch bore-hole for the passage of the rases in the middle of the nowder rod. Dehind the propelling charge a grate was attached. The powders were tested in the subterranean bunker. The chambers had a standard steel tube closed by a lid on one side, the opposite side being fitted with an exchangeable nozzle. The gas pressure was measured and the nozzle pressure and burning time were determined. The powder samples were later sent to 30 THM for the namufacture of charges.

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The take-off assisting rockets were tested on "e-109 planes at the HBELY airfield.

The manufacture of take-off rockets for Dakota planes was started in late Tarch 1949. They were said to be 6.6 feet long with a diameter of 15.78 inches.

4. Turbojet power units were built only in Czechoslovakia at the lilitary-Technical Institute at PODTOTLY, where the disassembled engines left by the Germans were put together again. This was formerly the case with the Juno engines which, after completion, were fitted into the 1e-262 plane.

five RY-003 ouglines were

being assembled under the direction of Oldrich THEMA, his two assistants Bohous TANDA and Tvzen CA BOUT, and two mechanics of the LIBEREC Filitary Specialist School for Lireraft Mechanics. These engines had been sent to LUTHATY for testing prior to Christmas 1948 and had been taken over by Eng. BULMATA, had been returned to FODECHLY, then shipped back to LETHATY for installation in planes after the wing attachments had been fixed to them. It was intended to install them in Czech type aircraft.

The hourly fuel consumption of this NY-003 power unit was 258 callons. The mixture was pure potroleum with a small quantity of aviation oil. The engines were started by a field casoline engine, which started the main shaft with the compressor and the turbine wheel. At about 700 r.p.m., the fuel was forced up by the injection nozzles and ignited in the combustion chambers.

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a. It has been repeatedly reported that in a section of the lilitary sechnical Institute in PODMOKLY research work is done on guided missiles. The present report confirms these statements.

b. Dating from October 1946, other information is available that work had been resumed in the subterranean plant in PCDMOKLY, which was built for the manufacture of V-weapons. This plant was located between the freight station and the libe liver on the premises of the former etallwarks V.A. Lange (now belonging to the mationalized plant of Pochmische Tetallwalzwerke (Bohemian etal lilling orks) and the DG (now belonging to the OK). The type of V-weapons to be manufactured there is not known. The existing suided missiles indicate that probably part of this production was treasferred to BODE TACU.

c. It seems credible in the case of the reported guided missiles, that it is not the question of postrar production, but of the assembly and testing of parts manufactured during the man, as Czechoslovakia lacks the required technical specialists. In the case of the guided missiles it probably reads Hentschel 293 instead of Pentschel 298 as, according to the description, guided missiles for use against ground targets are concerned. Iso the Ps-298 was propelled by a two-stage ponder rocket, but the Ps-295 rocket was made for different kinds of propulsion (methanol liquefied 02 or an omilin liquid as centloned in para 2).

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- d. There is a large troop training grounds in MALACKY where aircraft and ground meanons are tested.
- e. Large-scale tests of aircraft meapons had been made in Yugoslavia by Czechoslovakia before the mar, especially in C.TT.RO or the larst region near 100TAR

therefore, were provided for executests in Mugoslavia, but not for Mugoslavia).

- f. The use of rockets as take-off assisting devices and flight accelerators (flight boosters) was demonstrated, on Aviation Day, in WE CEU (September 1947) by the Czech ir Force. These statements are therefore considered correct.
- g. The statements on the assembly of turbojet power units are also considered correct. The fact that, from now on, Czechoslovekia will use pure petroleum as fuel for turbojet power units was not known.
- h. In REICHENBACH/LIBEREC there is the School for Flight Mechanics.

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